CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 85-56
NPDES NO. CA0028801

WASTE DISCHARGE REQUIREMENTS FOR:

CONTINENTAL MARITIME OF SAN FRANCISCO, INC.
PIER 50 DRY DOCK
SAN FRANCISCO COUNTY

The California Regional Water Quality Control board, San Francisco Bay Region (hereinafter called the Board), finds that:

1. Continental Maritime of San Francisco, Inc., hereinafter called the discharger, by application dated January 8, 1985, has applied for issuance of waste discharge requirements and a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).

2. The discharger repairs and performs maintenance on seagoing vessels at it's current facility at Pier 50. The discharger will expand it's ship repair operations by mooring a floating dry dock off the end of Pier 50. There will be no discharge to the bay from the facilities located on the pier.

3. The floating dry dock will be moored to dolphins approximately 55 feet off the end of Pier 50. Access to the dry dock will be via a ramp that will extend from the end of Pier50 to the dry dock. Materials and equipment used in the repair of the ships in the dry dock will be delivered to the dry dock via the ramp.

4. The report of waste discharge describes the proposed discharges as follows:

a. Waste 001 and 002 consists of residual spent abrasives which remain on the floor of the dry dock. The abrasives may contain decaying marine organisms, heavy metals, toxic plant residues, oil and grease, and other materials. The residual abrasives come in contact with bay water when the dry dock is submerged to refloat a vessel.

b. Waste 003 through Waste 008 consist of discharge from six collection sumps. The discharge will be a total of approximately 8,000 gallons per day (one to two days per week), of wastewater that was used in the water blasting of ship hulls. The discharge may contain the same materials as waste streams 001 and 002. The wastewater will be treated, prior to discharge to the bay, by means of sedimentation and filtration.

5. The Regional Board adopted a Revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for south San Francisco Bay.

6. The beneficial uses of south San Francisco Bay and contiguous water bodies are:

a. Water contact recreation
b. Non-contact water recreation
c. Navigation
d. Ocean commercial and sport fishing
e. Wildlife habitat
f. Fish spawning and migration
g. Industrial service and process supply
h. Shellfish harvesting
i. Estuarine habitat
j. Preservation of Rare and Endangered Species

7. The Basin Plan prohibits discharge of any wastewater which has particular characteristics of concern to beneficial uses at any point at which the wastewater does not receive a minimum initital dilution of 10:1. The Board finds that the proposed discharge does not have particular characteristics of concern, provided the discharge limitations contained in this Order are met.

8. Effluent limitations and toxic effluent standards established pursuant to Sections 301, 304, and 307 of the Clean Water Act (CWA) and amendments thereto are applicable to this discharge.

9. Effluent limitation guidelines requiring the application of best available technology economically achievable (BAT) for this point source category have not been promulgated by the U.S. Environmental Protection Agency. Effluent limitations of this Order are based on the Basin Plan, State Plans and policies, expected operations performance, and best professional judgement. The limitations are considered to be those attainable by BAT, in the judgement of the Board.

10. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with section 21000 of Division 13) of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.

11. The board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

12. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that Continental Maritime of San Francisco, Inc., in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Federal Water Pollution Control Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. The direct discharge of spent abrasive sweepings and paint residues from the dry dock, ships, or piers servicing ships, to waters of the State is prohibited.

2. The placement of spent abarasives and paint residue is prohibited in areas where the materials may be washed into waters of the State by stormwater runoff, or by tide or wave action.

3. The discharge of sanitary sewage from vessels having sewage holding tanks to waters of the State is prohibited.

4. The discharge of any water or liquid waste, from a vessel located on the floating dry dock, to the dry dock floor is prohibited.

B. Effluent Limitations

1. The discharge of wastes 001 and 002 shall not exceed those quantities remaining after the following measures have been taken: prior to the submergance of the dry dock the discharger shall remove spent abrasives, paint residues, and other debris from those portions of the dry dock floor, which are resonably accessible, to a degree achievable by scraping and broom cleaning.

After a vessel has been removed from the dry dock, the remaining areas of the floor which were previously inaccessible shall be cleaned by scraping and broom cleaning as soon as practical, and prior to the introduction of another vessel. This provision shall not apply in cases wherein a vessel must be introduced into the dry dock on an emergency basis, such as to prevent sinking, or leakage of oil or other materials. The Executive Officer shall be notified in such cases.

2. Waste 003 through 008 shall not exceed the following limits:

Constituents	Units	30-Day Average	Maximum Daily
Chromium	mg/l	0.02	0.03
Copper	mg/l	0.01	0.05
Lead	mg.l	0.1	0.4
Zinc	mg/l	0.04	0.9
Oil and Grease	mg/l	10	20
Settleable Solids	ml/l	0.2	1.0
Total Suspended Solids	mg/l	30.0	45.0

3. The pH of wastes 003 throughh 008 shall not exceed 8.5 nor be less than 6.5.

4. In any representative set of samples, wastes 003 through 008 as discharged shall meet the following limit of quality:

TOXICITY: The survival of test fishes in 96 hour bioassays of the effluent as discharged shall be a median of 90% survival and a 90 percentile value of not less than 70% survival.

C. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place.

   a. Floating, suspended, or deposited macroscopic partiulate matter or foam;

   b. Bottom deposits or aquatic growths;

   c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;

   d. Visible, floating, suspended, or deposited oil or other products or petroleum origin;

   e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

2. The discharge of waste shall not cause the following limits to be exeeeeded in waters of the State in any place within one foot of the surface:

a.	Dissolved oxygen	5.0 mg/l minimum - median for any three consecutive months shall not be less than 80% saturation. When natural factors cause lesser concentration(s) than specified above. then discharge shall not cause further reduction in the concentration of dissolved oxygen.
b.	pH	Variation from natural ambient pH by more than 0.5 pH units.

3. The discharge shall not cause a violation of any applicable water quality standards for receiving waters

adopted by the Board or the State Water Resources Control Board as required by the Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Clean Water Act, or amendments thereto, the Board will revise and modify this Order in accordance with such standards.

D. Provisions

1. The discharger shall comply with all sections of this order upon commencement of operations.

2. The discharger shall prepare and update annually a contingency plan as required by Board Resolution No. 74-10. The discharge of pollutants in violation of this Order where the discharger has failed to develop and/or implement contingency plan will be basis for considering such discharge a willful and negligent violation of this Order pursuant to Section 13387 of the California Water Code.

3. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.

4. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977, except items A.5, A.12, and B.5.

5. The discharger shall provide pumpout facilities to transfer sewage from vessel holding tanks to the municipal sanitary sewer from the drydock, the pier, and other areas under the dischargers control.

6. During the period between November 1 and May 1 of the following year the discharger shall clean the drydock floor as often as needed so as to eliminate or minimize the discharge of pollutants into the bay via stormwater runoff.

7. All applications, reports, or information submitted to the Regional Board shall be signed and certified pursuant to Environmental Protection Agency regulations (40 CFR 122.41K).

8. Pursuant to Environmental Protection Agency regulations [40 CFR 122.42(a)] the Discharger must notify the Regional Board as soon as it knows or has reason to believe (1) that they have begun or expect to begin, use or manufacture of a pollutant not reported in the permit application, or (2) a discharge of a toxic pollutants not limited by this permit has occurred, or will occur, in concentrations that exceed the specified limits.

9. This Order expires May 15, 1990. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.

10. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Federal Water Pollution Control Act or amendments thereto, and shall become effective 10 days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Roger B. James, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on May 15, 1985.

ROGER B. JAMES
Executive Officer

Attachments:
Standard Provisions &
Reporting Requirements, April 1977
Self-Monitoring Program
Resolution 74-10

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

CONTINENTAL MARTIME OF SAN FRANCISCO, INC.

PIER 50 DRY DOCK

NPDES NO. CA 0028801

ORDER NO. 85-56

CONSISTS OF

PART A dated January 1978

AND

PART B

PART B

I. Description of Sampling Stations

A. Effluent

Station	Description
E-001	The northern end of the dry dock
E-002	The southern end of the dry dock
E-003 thru E-008	At any point in each of the three discharge pipes along each side of the dry dock between the points of discharge and the point at which all waste tributary to respective outfall is present.

B. Receiving Waters

Station	Description
C-R	In San Francisco Bay immediately surrounding the dry dock facility.

II. Schedule of Sampling, Measurements, and Analysis

A. Stations E-001 and E-002: Prior to the submergence of the drydock, adequacy of the cleanliness of areas will be observed, certified, and recorded, indicating the dates and time of drydock use, observations, and submergence.

B. Stations E-003 - E-008: The schedule of sampling, measurements and analysis shall be given as Table I.

III. Modifications of Part "A", dated January 1978

A. Exclusions: Section C.5.d, C.5.e, and E.4.

B. Modifications: Section F.3 shall be modified as follows: "Written reports shall be submitted quarterly. The reports shall include the compliance record relative to effluent limitation No. 1 of this order and all other requirements listed in Part A. (Discharger Prohibitions)"

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 85-56.

2. Is effective on the date shown below.

3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

ROGER B. JAMES
Executive Officer

Effective Date_____

Attachment: Table I

TABLE 1

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-003-E-008*-C-R													
TYPE OF SAMPLE	G													
Flow Rate (mgd)														
BOD, 5-day, 20°C, or COD (mg/l & kg/day)														
Chlorine Residual & Dosage (mg/l & kg/day)														
Settleable Matter (ml/1-hr. & cu. ft./day)	M													
Total Suspended Matter (mg/l & kg/day)	M													
Oil and Grease (mg/l & kg/day)														
Coliform (Total or Fecal) (MPN/100 ml) per req't														
Fish Tox'y 96-hr. TL % Surv'l in undiluted waste	Y													
Ammonia Nitrogen (mg/l & kg/day)														
Nitrate Nitrogen (mg/l & kg/day)														
Nitrite Nitrogen (mg/l & kg/day)														
Total Organic Nitrogen (mg/l & kg/day)														
Total Phosphate (mg/l & kg/day)														
Turbidity (Jackson Turbidity Units)														
pH (units)	M													
Dissolved Oxygen (mg/l and % Saturation)														
Temperature (°C)														
Apparent Color (color units)														
Secchi Disc (inches)														
Sulfides (if DO<5.0 mg/l) Total & Dissolved (mg/l)														
Arsenic (mg/l & kg/day)														
Cadmium (mg/l & kg/day)														
Chromium, Total (mg/l & kg/day)	M													
Copper (mg/l & kg/day)	M													
Cyanide (mg/l & kg/day)														
Silver (mg/l & kg/day)														
Lead (mg/l & kg/day)	M													

* Samples shall be collected during the Hull Water Blasting Operation

TABLE 1 (continued)

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-003 - E-008*				C-R								
TYPE OF SAMPLE													
Mercury (mg/l & kg/day)													
Nickel (mg/l & kg/day)													
Zinc (mg/l & kg/day)	M												
Phenolic Compounds (mg/l & kg/day)													
All Applicable Standard Observations	M				M								
Bottom Sediment Analyses and Observations													
Total Ident. Chlor. Hydrocarbons (mg/l & kg/day)													
Total Organic Carbon	M												

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
C-24 = composite sample - 24-hour
C-X = composite sample - X hours (used when discharge does not continue for 24-hour period)
Cont = continuous sampling
DI = depth-intergrated sample
BS = bottom sediment sample
O = observation

TYPES OF STATIONS

I = intake and/or water supply stations
A = treatment facility influent stations
E = waste effluent stations
C = receiving water stations
P = treatment facilities perimeter stations
L = basin and/or pond levee stations
B = bottom sediment stations
G = groundwaters stations

FREQUENCY OF SAMPLING

E = each occurence
H = once each hour
D = once each day
W = once each week
M = once each month
Y = once each year

2/H = twice per hour
2/W = 2 days per week
5/W = 5 days per week
2/M = 2 days per month
2/y = once in March and once in September
Q = quarterly, once in March, June, Sept. and December

2H = every 2 hours
2D = every 2 days
2W = every 2 weeks
3M = every 3 months
Cont = continuous